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Date:

BRUHATH BANGALORE MAHANAGARA PALIKE

CONSTRUCTION OF ADDITIONAL CLASS ROOMS, TOILET AND AUDITORIUM AND PROVIDING
OFFICE ACCESSORIES TO YELAHANKA GOVERNMENT DEGREE COLLEGE, YELAHANKA,
BANGALORE, IN WARD NO.01

ABSTRACT OF ESTIMATE

SI. N	DESCRIPTION OF WORK	Amount in Rs.
1	Civil Works	
a	Additional Class Rooms and Staircase Eastern Side	2437000.00
b	Second Floor	9343000.00
c	Toilet Block With Staircase (Gents)	3314000.00
d	Toilet Block With Staircase(Ladies)	3362000.00
2	Water Supply and Sanitary Works	1000000.00
	SUB TOTAL	19456000.00
3	Electrical Works	1167360.00
	PROVISIONAL ITEM	
4	Providing Office Accessories	1000000.00
	SUB TOTAL	21623360.00
5	Professional Charges @ 3.5% + Service Tax @ 14.5%	866556.00
6	Miscellaneous Charges	10084.00
	GRAND TOTAL	22500000.00

for NANDISH ASSOCIATES

(K C NANDISH)

Assistant Engineer
Project Sub Division

ADMINISTRATIVE ZONE, BBMP Rs. 225.00

Rs. 225.00 hundred lakh & twenty
five thousand only
Executive Engineer 21/3/16
Project division
Yelahanka Zone, BBMP Bangalore

P-3089

Issued as EC () No. 9/9/...
Subject to conditions contained in
enclosed memo EE () No. 19/...
Dt. 23/4/16 Estimate A/Sanctioned
J.C/V/A/A/83/15-16
dated 23-2-2016 Rs. 225.00 lakh

Joint Commissioner
Yelahanka

Assistant Executive Engineer
Project Sub Division
Yelahanka Zone, BBMP

Technical Sanction
Accorded For 225.00 lakh
Head of A/C P-3089
CER NO : 127 Dt: 10-03-16

TA CE (YNK)

BRUHAT BANGALORE MAHANAGARA PAILKE

CONSTRUCTION OF ADDITIONAL CLASS ROOMS, TOILET AND AUDITORIUM AND PROVIDING OFFICE ACCESSORIES TO YELAHANKA GOVERNMENT DEGREE COLLEGE, YELAHANKA, BANGALORE IN WARD NO. 01

ADDITIONAL CLASS ROOMS AND STAIRCASE EASTERN SIDE

Est.cost. Rs. 2437000.00

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
1	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications Dismantling brick/Tile work B. In cement mortar.								
	P.No.136, I.No.18.23								
	Walls	2	6.33	0.23	3.30	9.61			
		2	3.70	0.23	3.30	5.62			
		2	8.00	0.23	3.30	12.14			
		2	2.78	0.23	3.30	4.22			
		1	8.30	0.23	2.10	4.01			
		1	4.10	0.23	2.10	1.98			
		6	1.5	0.15	2.10	2.84			
		10	1.5	0.15	2.10	4.73			
						45.14	cumt	245.92	11100.53
	Basic Rate	232.00							
	Area Weightage 6%	13.92							
	Total	245.92							
2	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications Lime /Cement Concrete. I. By Manual Means : B Cement Concrete Grade M-15 & M-20.								
	P.No.136, I.No.18.18								
	Roof Area	1	6.33	3.70	0.15	3.51			
		1	8.00	2.78	0.15	3.34			
						6.85	cumt	375.24	2570.08
	Basic Rate	354.00							
	Area Weightage 6%	21.24							
	Total	375.24							
3	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications Prestressed / Reinforced cement concrete grade M-20 & above.								
	P.No.136 I.No.18.19								
	Roof Area	1	6.33	3.70	0.15	3.51			
		1	8.00	2.78	0.15	3.34			
						6.85	cumt	1022.90	7006.00
	Basic Rate	965.00							
	Area Weightage 6%	57.90							
	Total	1022.90							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
4	Dismantling cement concrete flooring or plain cement concrete work including removing and conveying the debris to distance upto 200m (within average thickness of 15 cms).								
	P.No.258, I.No.37.51								
	Flooring Area	1	6.30	3.70		23.42			
		1	8.00	2.78		22.24			
						45.66	Sqm	54.06	2488.43
	Basic Rate	51.00							
	Area Weightage 6%	3.06							
	Total	54.06							
5	Dismantling of existing structures like culverts, bridges, retaining walls and other structures comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding where necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. Rubble stone masonry in cement mortar.								
	P.No.137, I.No.18.27								
		2	6.33	0.45	0.23	0.21			
		2	8.33	0.60	0.45	0.54			
		2	3.70	0.45	0.23	0.21			
		2	3.70	0.60	0.45	0.54			
		2	8.00	0.45	0.23	0.21			
		2	8.00	0.60	0.45	0.54			
		2	2.70	0.45	0.23	0.21			
		2	2.70	0.60	0.45	0.54			
		6	1.20	0.45	0.45	1.22			
		10	1.20	0.45	0.45	2.03			
						6.23	cumt	245.92	1531.59
	Basic Rate	232.00							
	Area Weightage 6%	13.92							
	Total	245.92							
6	Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications.								
	S.R Page no 5, item no 2.1								
	Site Cleaning	1	9.90	8.40	0.30	24.95			
		1	7.00	8.90	0.30	18.69			
						43.64	cumt	156.88	8845.93
	Basic Rate	148.00							
	Area Weightage 6%	8.88							
	Total	156.88							
7	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specification								
	S.R Page no 5, item no 2.4								
	Footings	6	1.50	1.50	1.50	20.25			
	In between Trenches								
	In B/W Grid 1&2	2	2.30	0.90	1.05	4.35			
	In B/W Grid 2&3	2	1.60	0.90	1.05	3.02			
	In B/W Grid 21&22	1	3.9	0.90	1.05	3.71			
	In B/W Grid 20&21	1	2.0	0.90	1.05	1.89			
						33.22	Cum	283.02	9403.30

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Basic Rate	267.00							
	Area Weightage @ 6%	16.02							
	Total	283.02							
8	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregate @ 0.892cum and fine aggregates @ 0.465cum machine mixed, machinemixed, concrete laid in layers not exceeding 15 cms, thick well compacted in foundation and plinth, cost of all materials, labour HCM of machinery, curing complete as per specifications.								
	S R Page no 12, item no 4.2								
		6	1.50	1.50	0.15	2.03			
	In between Trenches								
	In B/W Grid 1&2	2	2.30	0.75	0.15	0.52			
	In B/W Grid 2&3	2	1.60	0.75	0.15	0.36			
	In B/W Grid 21&22	1	3.9	0.75	0.15	0.44			
	In B/W Grid 20&21	1	2.0	0.75	0.15	0.23			
						3.57	Cumt	5139.94	18347.66
	Basic Rate:	4849.00							
	Area Weightage @ 6%	290.94							
	Total	5139.94							
9	Providing and constructing granite / trap / basalt Size Stone Masonry in cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of maerials, labour, curing Complete as per specifications.								
	S.R Page no 23, item no 5.6								
	In B/W Grid 1&2	2	2.30	0.60	0.45	1.24			
		2	2.30	0.45	0.45	0.93			
	In B/W Grid 2&3	2	1.60	0.60	0.45	0.86			
		2	1.60	0.45	0.45	0.65			
	In B/W Grid 21&22	1	3.93	0.60	0.45	1.06			
		1	3.93	0.45	0.45	0.80			
	In B/W Grid 20&21	1	2.0	0.75	0.45	0.68			
						6.22			
	Deduct available					2.49			
	Basic Rate	3829.00				3.73	Cumt	4058.74	16123.78
	Area Weightage 6%	229.74							
	Total	4058.74							
10	Filling available excavated earth (excluding rock) insides of foundations upto plinth in layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with a lead upto 50m. And lift upto 1.5m including cost of all labour complete as per specifications								
	S.R, page 6 item 2.10								
	40% on item No 1					13.29	Cumt	127.20	1690.48
	Basic Rate	120.00							
	Area Weightage @ 6%	7.20							
	Total	127.20							
11	Transportation of excavated earth by mechanical means including loading and unloading with a lead of 20 kmtr and dispersing the same as directed.								
						19.93	Cumt	114.20	2276.57
	Loading and unloading I No.17.1					62.20			
	for Haulage(surface road Rs. 2.0 T/Km)					56.20			
	(density of debris 1.30 t/cum)					124.32			
	20x2.2x1.28					52.00			
	for 20kms =20x2x1.30								

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
					114.20				
12	Providing and removing Centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specification SR Page 15 item 4.28								
	Footings	6	6.00		0.60	21.60			
	Basic Rate:	226.00				21.60	Sqmt	239.56	5174.50
	Area Weightage @ 6%	13.56							
	Total	239.56							
13	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplasticiser @ 3% confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. S.R Page no 13, item no 4.12								
	Ground Floor								
	Footing	6	1.50	1.50	0.60	8.10			
						8.10			
	Columns								
	Upto plinth Beam-bottom	6	0.30	0.45	0.90	0.73			
						0.73			
	Basic Rate:	6074.00				8.83	Cumt	6438.44	56844.99
	Area Weightage @ 6%	364.44							
	Total	6438.44							
14	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.70cum and fine aggregates @ 0.47cum, with superplasticiser @ 3% confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. S.R Page no 13, item no 4.12								
	Ground Floor								
	Plinth Beam	2	9.00	0.20	0.45	1.62			
		2	8.60	0.20	0.45	1.55			
						3.17			
	Columns up to Beam Bottom	6	0.30	0.45	2.90	2.35			
						2.35			
	Lintels	2	9.00	0.20	0.20	0.72			
		1	8.60	0.20	0.20	0.34			
						1.06			
	Staircase								
	Waist Slab	1	7.20	1.50	0.15	1.82			
	Landing	1	3.10	1.80	0.15	0.84			
	Staircase sides	2	3.75	0.10	1.00	0.75			
						3.21			

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S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
	Deduction (Columns)	6	0.20	0.20	0.20	0.05			
						3.16			
						9.74	Cumt	6438.44	62710.41
	Basic Rate:	6074.00							
	Area Weightage @ 6%	364.44							
	Total	6438.44							
	First Floor								
	Columns	6	0.30	0.45	2.90	2.35			
						2.35			
	Lintels	2	9.00	0.20	0.20	0.72			
		1	8.60	0.20	0.20	0.34			
						1.06			
	Staircase								
	Waist Slab	1.5	7.20	1.50	0.15	2.43			
	Landing	1	3.10	1.80	0.15	0.84			
	Staircase sides	2	3.75	0.10	1.00	0.75			
						4.02			
	Deduction (Columns)	6	0.20	0.20	0.20	0.05			
						3.97			
						7.38	Cumt	6491.44	47919.81
	Basic Rate:	6074.00							
	Add: Lift Charges for First Floor	50.00							
	Total	6124.00							
	Area Weightage @ 6%	367.44							
	Total	6491.44							
	Second Floor								
	Columns	6	0.30	0.45	2.90	2.35			
	Columns upto parapet height	6	0.30	0.45	1.00	0.81			
						3.16			
	Lintels	2	9.00	0.20	0.20	0.72			
		1	8.60	0.20	0.20	0.34			
						1.06			
	Staircase								
	Waist Slab	1	7.20	1.50	0.15	1.62			
	Landing	1	3.10	1.80	0.15	0.84			
	Staircase sides	2	3.75	0.10	1.00	0.75			
						3.21			
	Deduction (Columns)	6	0.20	0.20	0.20	0.05			
						3.16			
						7.38	Cumt	6544.44	48311.06
	Basic Rate:	6074.00							
	Add: Lift Charges for First Floor	50.00							
	Add: Lift Charges for Second Floor	50.00							
	Total	6174.00							
	Area Weightage @ 6%	370.44							
	Total	6544.44							
15	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cms thick layers and well compacted including vibrating, curing, etc., with all lead and lifts etc complete (exclusive of cost of steel and fabrication charges) Ready Mixed Cement Concrete for Beams, Staircase and Roof with M-25								
	S.R. page 18 item 4.49/4.49.2								
	Ground Floor								
	RCC Beams								
		2	9.00	0.30	0.45	2.43			

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
		3	8.60	0.30	0.45	3.48			
						5.91			
	Roof Slab	1	9.00	9.00	0.15	12.15			
						12.15			
	Deduction of staircase	1	5.10	3.10	0.15	2.37			
						9.78			
	First Floor(Beams)	2	9.00	0.30	0.45	2.43			
		3	8.60	0.30	0.45	3.48			
						5.91			
	Roof Slab	1	9.00	9.00	0.15	12.15			
						12.15			
	Deduction of staircase	1	5.10	3.10	0.15	2.37			
						9.78			
	Second Floor(Beams)	2	9.00	0.30	0.30	1.62			
		3	8.60	0.30	0.3	2.32			
						3.94			
	Roof Slab	1	9.00	9.00	0.15	12.15			
						12.15			
	Deduction of staircase	1	5.10	3.10	0.15	2.37			
						9.78			
						45.10	Cumt	6410.88	289153.13
	Basic Rate:	6048.00							
	Area Weightage @ 6%	362.88							
	Total	6410.88							
16	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 24kgs. with 12mm and down size graded granite metal coarse aggregates @0.5175cum and fine aggregates @ 0.345cum, with superplasticiser @0.225lts, machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications.								
	SR Page 14 item 4.19								
	Ground Floor								
	Windows	4	1.80		0.45	3.24			
						3.24	Sqmt	461.10	1493.96
	Basic Rate:	435.00							
	Area Weightage @ 6%	26.10							
	Total	461.10							
	First Floor								
	Windows	4	1.80		0.45	3.24			
						3.24	Sqmt	466.40	1511.14
	Basic Rate:	435.00							
	Add: Lift Charges for First Floor	5.00							
	Total	440.00							
	Area Weightage @ 6%	26.40							
	Total	466.40							
	Second Floor								
	Windows	4	1.80		0.45	3.24			
						3.24	Sqmt	471.70	1528.31
	Basic Rate:	435.00							
	Add: Lift Charges for First Floor	5.00							
	Add: Lift Charges for Second Floor	5.00							
	Total	445.00							
	Area Weightage @ 6%	26.70							
	Total	471.70							

S.N	DESCRIPTION OF WORK	N	L	B	D	QTY	UNIT	RATE	AMOUNT
17	Providing and laying in Mat for RCC roof at below the steel for avoiding concrete cement slurry as per the requirement of Engineer incharge. (Approved Data Rates)								
	Ground Floor								
	Roof slab	1	9.00	9.00		81.00			
	First Floor								
	Roof slab	1	9.00	9.00		81.00			
	Second Floor								
	Roof slab	1	9.00	9.00		81.00			
						243.00	Sqmt	65.00	15795.00
18	Providing and removing Centering, shuttering, strutting, propping etc., and removal of from work for vertical surface such as walls at any thickness including attached plasters, buttresses, plinth chills and string courses cost of all materials, labour complete as per specification								
	SR Page 15 item 4.31								
	Plinth Beam	4	9.00		0.45	16.20			
		4	8.60		0.45	15.48			
	Roof Slab Sides	1	9.00		0.15	1.35			
		1	8.60		0.15	1.29			
						34.32	Sqmt	301.04	10331.69
	Basic Rate:	284.00							
	Area Weightage @ 6%	17.04							
	Total	301.04							
19	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge								
	S.R. page 16 item 4.32								
	Ground Floor								
	Upto Plinth Beam Bottom	6	1.50		0.90	8.10			
	Upto Rcc Beam Bottom	6	1.50		2.90	26.10			
						34.20	Sqmt	376.30	12869.46
	Basic Rate:	355.00							
	Area Weightage @ 6%	21.30							
	Total	376.30							
	First Floor								
	Upto Rcc Beam Bottom	6	1.50		2.90	26.10			
						26.10	Sqmt	381.60	9959.76
	Basic Rate:	355.00							
	Add: Lift Charges for First Floor	5.00							
	Total	360.00							
	Area Weightage @ 6%	21.60							
	Total	381.60							
	Second Floor								
	Upto Rcc Beam Bottom	6	1.50		2.90	26.10			
						26.10	Sqmt	386.90	10098.09
	Basic Rate:	355.00							
	Add: Lift Charges for First Floor	5.00							
	Add: Lift Charges for Second Floor	5.00							
	Total	365.00							
	Area Weightage @ 6%	21.90							
	Total	386.90							